INNOLUX DISPLAY CORPORATION

BT156GW01 V.4 LCD MODULE SPECIFICATION

()	Pre	limin	ary Sp	ecifica	tion

)	Final	Spec	ification
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Customer	Checked & Approved by

Approved by	Checked by	Prepared by
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1. General Specifications

NO.	ltem	Specification	Unit
1	Display resolution (pixel)	1366(H) X 768(V), HD resolution	
2	Active area	344.232(H) X 193.536(V)	mm
3	Screen size	15.6 inches diagonal	Inches
4	Pixel pitch	0.252(H) X 0.252(V)	mm
5	Color configuration	Stripe	
6	Overall dimension	359.8(W) X 210(H) X 5.5(D) (max)	mm
7	Weight	450 Max.	Grams
8	Surface treatment	Glare, 3H	
9	Input color signal	6 bit LVDS	
10	Display colors	262K (6 bit)	
11	Optimum viewing direction	6 o'clock	
12	Backlight	W-LED	
13	RoHS	RoHS compliance	



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2. Electrical Specifications

2-1 Pin Assignment

a. Panel connector

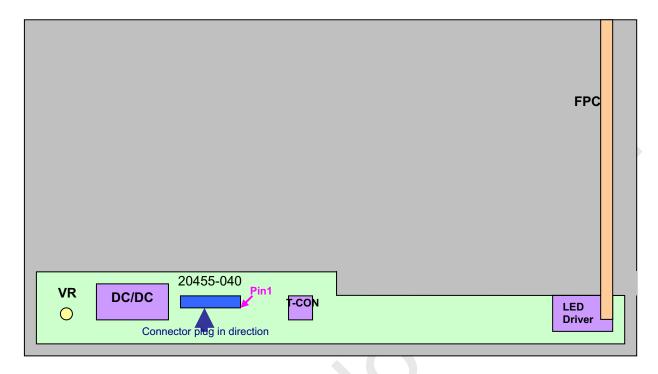
Connector Part No.: 20455-040-12 (I-PEX) or equivalent

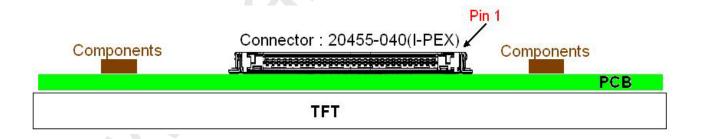
Pin No	Symbol	Description	Remark
1	NC	No connection (Reserve)	
2	V _{CC}	Power Supply (+3.3V)	
3	V _{CC}	Power Supply (+3.3V)	
4	V _{EDID}	DDC Power +3.3V	
5	NC	No connection (Reserve)	
6	Clk _{EDID}	DDC Clock	
7	DATA _{EDID}	DDC Data	
8	Rxin0-	Differential Data Input	D0 D5 00
9	Rxin0+	Differential Data Input	R0~R5,G0
10	GND	Ground	_
11	Rxin1-	Differential Data Input	C1- C5 D0 B1
12	Rxin1+	Differential Data Input	G1~G5,B0,B1
13	GND	Ground	
14	Rxin2-	Differential Data Input	DO DE DE Havea Vavea
15	Rxin2+	Differential Data Input	B2~B5,DE,Hsync,Vsync
16	GND	Ground	
17	CLK-	Differential Clock Input	
18	CLK+	Differential Clock Input	
19	NC	No connection (Reserve)	
20	NC	No connection (Reserve)	
21	NC	No connection (Reserve)	
22	NC	No connection (Reserve)	
23	NC	No connection (Reserve)	
24	NC	No connection (Reserve)	
25	NC	No connection (Reserve)	
26	NC	No connection (Reserve)	
27	NC	No connection (Reserve)	
28	NC	No connection (Reserve)	
29	NC	No connection (Reserve)	
30	NC	No connection (Reserve)	
31	LED_GND	LED Ground	
32	LED_GND	LED Ground	
33	LED_GND	LED Ground	
34	NC	No connection (Reserve)	
35	LED_PWM	PWM dimming signal input	
36	LED_EN	LED enable pin (3.3V)	
37	NC	No connection (Reserve)	
38	V LED	LED power supply 7.5V~21V	
39	V LED	LED power supply 7.5V~21V	
40	V LED	LED power supply 7.5V~21V	



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b. General block diagram







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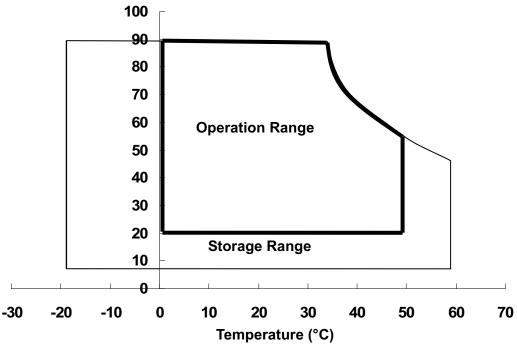
2-2 Absolute Maximum Ratings

Parameter	Symbol	Va	lues	Unit	Remark
Farameter	Symbol	Min.	Max.		Remark
Power input voltage	V _{CC}	- 0.3	4.0	V	At 25°C
Signal input voltage	V _{IN}	- 0.3	4.0	V	At 25°C
Operating temperature	T _{OP}	0	50	°C	Note 1
Storage temperature	T _{ST}	- 20	60	°C	Note 2
Re-screw		1	5	Times	
Assured torque at side mount		-	2	kgf.cm	

Note 1: The relative humidity must not exceed 90% non-condensing at temperatures of 40°C or less. At temperatures greater than 40°C, the wet bulb temperature must not exceed 39°C.

Note 2: The unit should not be exposed to corrosive chemicals.





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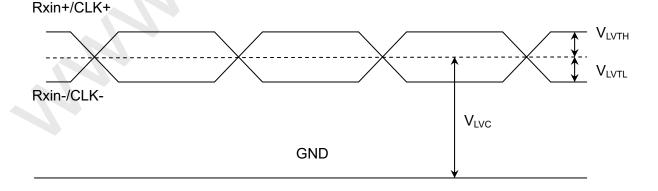
2-3 Electrical Characteristics

a. Typical operating conditions

Item		Symbol	Min.	Тур.	Max.	Unit	Remark
Power inpu	ut voltage	V_{cc}	3	3.3	3.6	٧	
Permissive	e power input ripple	V_{RF}	-	-	0.1	V	
Power inpu	ut current	I _{cc}	-	360	400	mA	Note 1
Power consumption		Pc	-	1.2	1.3	Watts	Note 1
	Differential input high threshold voltage	V_{LVTH}	-	-	+100	mV	V _{LVC} =1.2V, Note 2
LVDS	Differential input low threshold voltage	V_{LVTL}	-100	-	-	mV	V _{LVC} =1.2V, Note 2
interface	Common input voltage	V_{LVC}	1.0	1.2	1.4	V	Note 2
	Terminating resistor	R_T	90	100	110	ohm	
Rush current		I _{Rush}		-	1.5	А	Note 3
LE	D rush current	I _{LED-Rush}		-	3.0	Α	Note 4

Note 1: The specified input current and power consumption are under the V_{cc} =3.3 V, 25°C, f_V=60Hz (frame frequency) condition whereas black pattern is displayed.

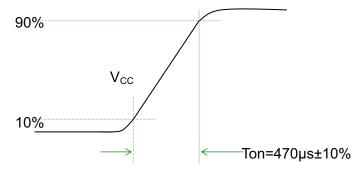
Note 2: LVDS waveform diagram



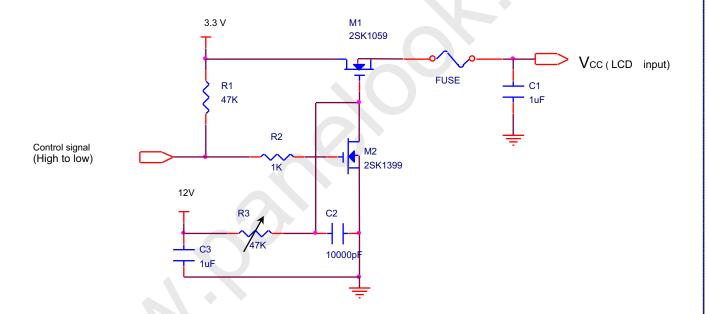


Note 3: Test condition

- (1) Pattern: Black pattern
- (2) V_{CC} = 3.3 V, V_{CC} rising time = 470 μ s ± 10%



(3) Test circuit

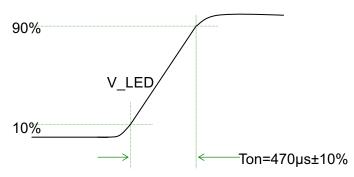




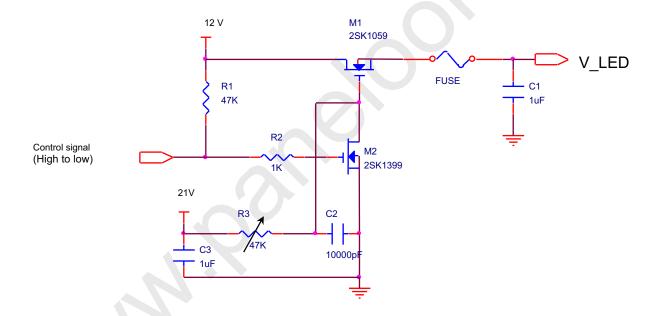
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Note 4: Test condition

- (1) LED duty 100%
- (2) V_LED = 12.0V, V_LED rising time = 470 $~\mu\,\mathrm{s}\pm10\%$

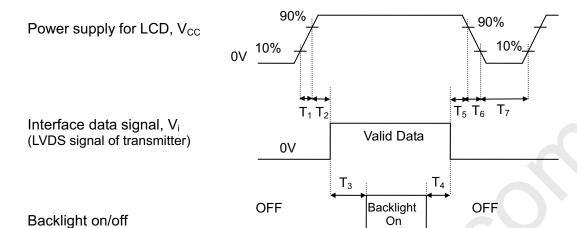


(3) Test circuit





b. Power sequence



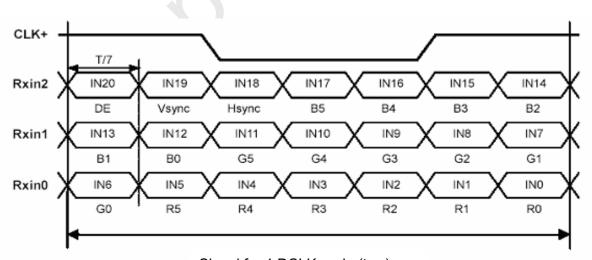
Power sequence timing table

Parameter		Units		
Parameter	Min.	Тур.	Max.	Units
T ₁	0.5		10	ms
T ₂	0		50	ms
T ₃	200	_ (/-)	-	ms
T ₄	200	-	-	ms
T ₅	0	-	50	ms
T ₆	0	-	10	ms
T ₇	400	-	-	ms

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c. Display color vs. input data signals

Signal Name	Description	Remark
R5	Red Data 5 (MSB)	Red-pixel data. Each red pixel's brightness data
R4	Red Data 4	consists of these 6 bits pixel data.
R3	Red Data 3	
R2	Red Data 2	
R1	Red Data 1	
R0	Red Data 0 (LSB)	
	Red-pixel Data	
G5	Green Data 5 (MSB)	Green-pixel data. Each green pixel's brightness
G4	Green Data 4	data consists of these 6 bits pixel data.
G3	Green Data 3	
G2	Green Data 2	
G1	Green Data 1	
G0	Green Data 0 (LSB)	
	Green-pixel Data	
B5	Blue Data 5 (MSB)	Blue-pixel data. Each blue pixel's brightness data
B4	Blue Data 4	consists of these 6 bits pixel data.
В3	Blue Data 3	
B2	Blue Data 2	
B1	Blue Data 1	
В0	Blue Data 0 (LSB)	
	Blue-pixel Data	



Signal for 1 DCLK cycle (t_{CLK})

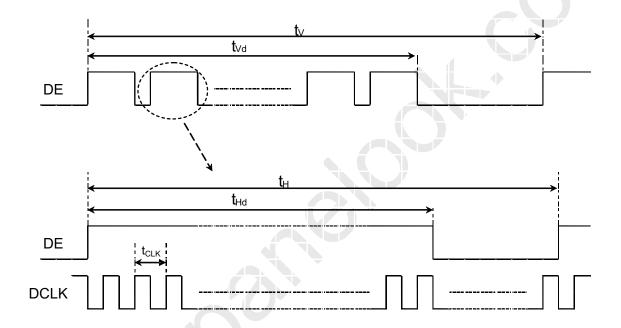


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d. Input signal timing

Timing table

Description	Symbol	Min	Тур	Max	Unit
Frame rate	1	50	60	1	Hz
Clock freq.	1/t _{CLK}	65	75	85	MHz
Line cycle time	t _H	1400	1560	1800	t _{CLK}
Line width-active	t_{Hd}	1366	1366	1366	t _{CLK}
Frame cycle time	t_V	780	806	900	t _H
V width-active	t_Vd	768	768	768	t _H



e. Display position

				1
D(1, 1)	D(2, 1)	 D(683, 1)	 D(1365, 1)	D(1366, 1)
D(1, 2)	D(2, 2)	 D(683, 2)	 D(1365, 2)	D(1366, 2)
		 :	 :	:
D(1, 384)	D(2, 384)	 D(683, 384)	 D(1365, 384)	D(1366, 384)
		 :	 :	:
D(1, 767)	D(2, 767)	 D(683, 767)	 D(1365, 767)	D(1366, 767)
D(1, 768)	D(2, 768)	 D(683, 768)	 D(1365, 768)	D(1366, 768)



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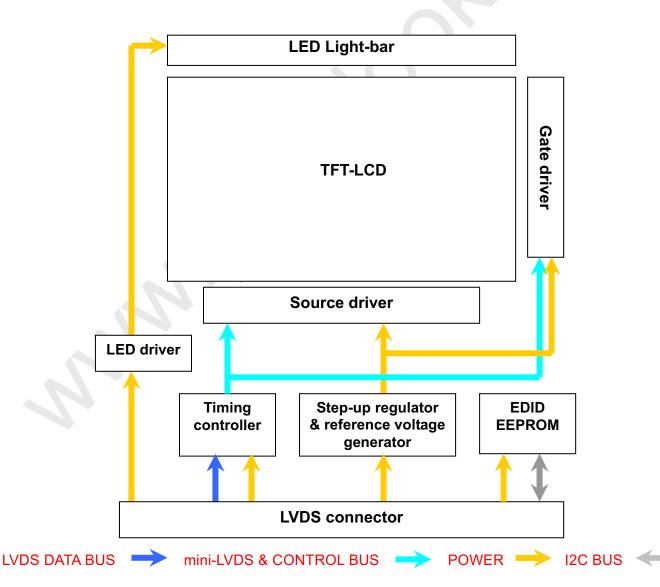
f. Backlight driving conditions

Parameter	Symbol	Min.	Тур.	Max.	Unit	Remark
LED Forward Voltage	V_{F}	3	3.2	3.4	V_{rms}	T = 25°C
LED Forward Current	I _F		20		mA _{rms}	T = 25°C
Power consumption	P _{LED}		3.93	4.20	W	T = 25°C
Input PWM frequency	F _{PWM}	180		2000	Hz	T = 25°C
Duty ratio	-	5		100	%	Note 1
LED life time	-	15,000			Hr	T = 25°C , Note 2

Note 1: PWM duty ratio linearity guarantees 10~100%.

Note 2: LED life time definition is brightness decrease to 50% of initial or abnormal lighting.

g. Module function block



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3. Optical specifications

Ambient temperature = 25°C

Item	Symbol	Condition	Sı	pecification	ion		
item	Symbol	Condition	Min.	Тур.	Max.	Unit	Remark
Response time	Tr+Tf	θ= 0°		8	15	ms	Note 3
Contrast ratio	CR	θ= 0°	500	600			Note 2,4
	Тор	CR≧10	15				
Vi susina na sanata	Bottom	CR≧10	30				Nata 0.40
Viewing angle	Left	CR≧10	40			deg	Note 2,4,6
	Right	CR≧10	40				
Brightness (5 points average)	Y _L		200	220	*	nit	Note 2,5
	W _x			0.313			
	W _y			0.329			
	R _x		-0.02	0.620	+0.02		
	R_y			0.340			Note 2
Color chromaticity (CIE)	G _x	θ= 0°	-0.02	0.330			Note 2
	G _y			0.605			
	B _x			0.150			
	B _y			0.070			
Color Gamut	Color Gamut NTSC CIE1931 56 60			%	-		
	$\delta_{W(5)}$		0.8				
White uniformity	δ _{W(13)}		0.65				Note 2,7
Cross talk	Ct				2%		Note 8

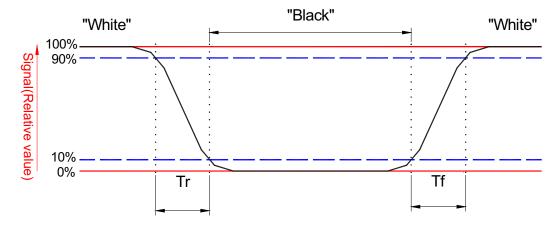
Note 1: To be measured in dark room.

Note 2: To be measured with a viewing cone of 2°by Topcon luminance meter BM-5A.

Note 3: Definition of response time:

The output signals of BM-7 are measured when the input pattern are changed from "Black" to "White" (falling time) and from "White" to "Black" (rising time), respectively. The response time interval is between 10% and 90% of amplitudes. Refer to figure as below.





Note 4: Definition of contrast ratio:

Contrast ratio is calculated with the following formula:

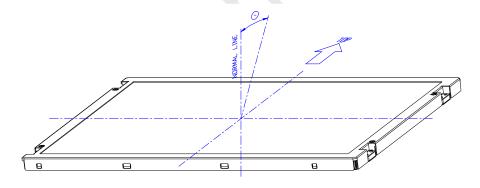
Contrast ratio (Avg of 5pts) =
$$\frac{L \text{ white (Avg of 5pts.)}}{L \text{ Black (Avg of 5pts.)}}$$

Note 5: Driving current for LED should be 20 mA.

Luminance is measured at the following thirteen points (1~13):

$$Y_L = (Y3 + Y5 + Y7 + Y11 + Y12) / 5$$

Note 6: Definition of viewing angle



Note 7: Definition white uniformity

Luminance is measured at the following thirteen points (1~13):

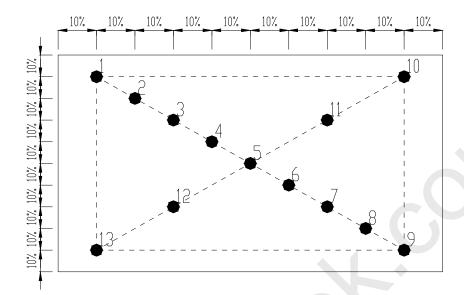
$$\delta_{W(13)} = \frac{\text{Minimum brightness of thirteen points}}{\text{Maximum brightness of thirteen points}}$$

$$\delta_{W(5)} = \frac{\text{Minimum brightness of five points}}{\text{Maximum brightness of five points}}$$

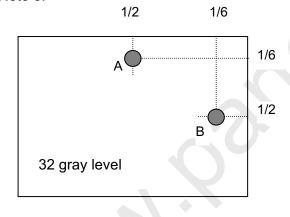
Global LCD Panel Exchange Center

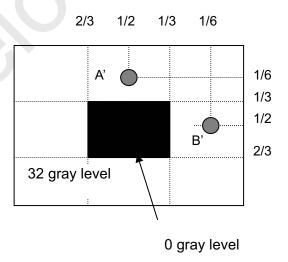
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13 point measuring locations refer to the point 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 and 13. 5 point measuring locations refer to the point 3, 5, 7, 11 and 12.









Unit: percentage of dimension of display area

 $IL_A-L_{A'}I/L_A$ x 100%= 2% max., L_A and $L_{A'}$ are brightness at location A and A' I L_B-L_B' I / L_B x 100% = 2% max., L_B' and L_B' are brightness at location B and B'



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4. Reliability test items

Test Item	Test Condition	Judgment	Remark
High temperature storage	60°C, 240 hours	Note 1	Note 2
Low temperature storage	-20°C, 240 hours	Note 1	Note 2
High temperature & high humidity operation	40°C, 90% RH, 240 hours (No condensation)	Note 1	Note 2
High temperature operation	50°C, 240 hours	Note 1	Note 2
Low temperature operation	0°C, 240 hours	Note 1	Note 2
Thermal shock (Non-operation)	-25°C / 30 mins ~ 65°C / 30 mins 100 cycles	Note 1	Note 2
Electrostatic discharge (ESD)	150 pF, 330Ω, Contact: ±8kV, Air: ±15kV	Note 1	
Vibration (Non-operation)	1.5G, 10 to 500 Hz random; 0.5hr in each perpendicular axes (X, Y, Z).	Note 1	Note 2
Mechanical shock (Non-operation)	220G/2ms, Half sine wave, ±X, ±Y, ±Z one time for each direction	Note 1	Note 2

Note 1: Pass: Normal display image with no obvious non-uniformity and no line defect. Fail: No display image, obvious non-uniformity, or line defects. Partial transformation of the module parts should be ignored.

Note 2: Evaluation should be tested after storage at room temperature for more than one hour.



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5. Safety

5-1. Sharp edge requirements

There will be no sharp edges or corners on the display assembly that could cause injury.

5-2. Materials

a. Toxicity

There will be no carcinogenic materials used anywhere in the display module. If toxic materials are used, they will be reviewed and approved by the responsible InnoLux Toxicologist.

b. Flammability

All components including electrical components that do not meet the flammability grade UL94-V0 in the module will complete the flammability rating exception approval process. The printed circuit board will be made from material rated 94-V0 or better. The actual UL flammability rating will be printed on the printed circuit board.

c. Capacitors

If any polarized capacitors are used in the display assembly, provisions will be made to keep them from being inserted backwards.

6. Display quality

The display quality of the color TFT-LCD module should be in compliance with the InnoLux incoming inspection standard.

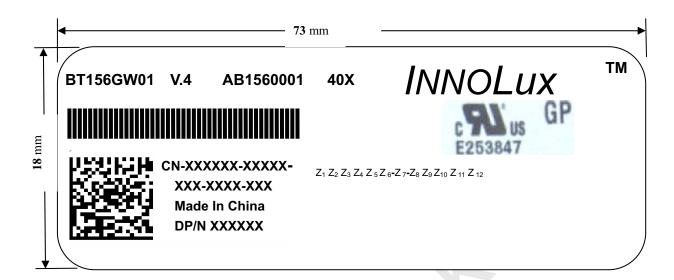
7. Handling precaution

- (1) Do not apply rough force such as bending or twisting to the module during assembly.
- (2) To assemble or install module into user's system can be only in clean working areas. The dust and oil may cause electrical short or worsen the polarizer.
- (3) It's not permitted to have pressure or impulse on the module because the LCD panel and backlight will be damaged.
- (4) Always follow the correct power sequence when LCD module is connecting and operating.
- (5) Do not pull the I/F connector in or out while the module is operating.
- (6) Do not disassemble the module.
- (7) Use a soft dry cloth without chemicals for cleaning, because the surface of polarizer is very soft and easily scratched.
- (8) It is dangerous that moisture come into or contacted the LCD module, because moisture may damage LCD module when it is operating.
- (9) High temperature or humidity may reduce the performance of module. Please store LCD module within the specified storage conditions.

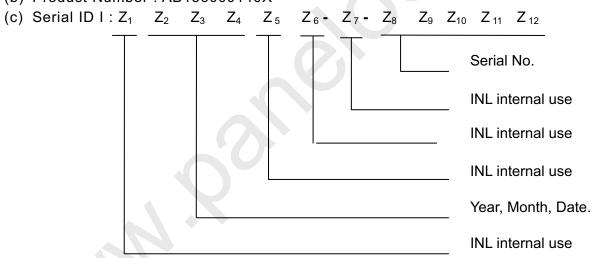
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8. Label Definition

8-1 Module label



(a) Model Number: BT156GW01 V.4 (b) Product Number: AB156000140X



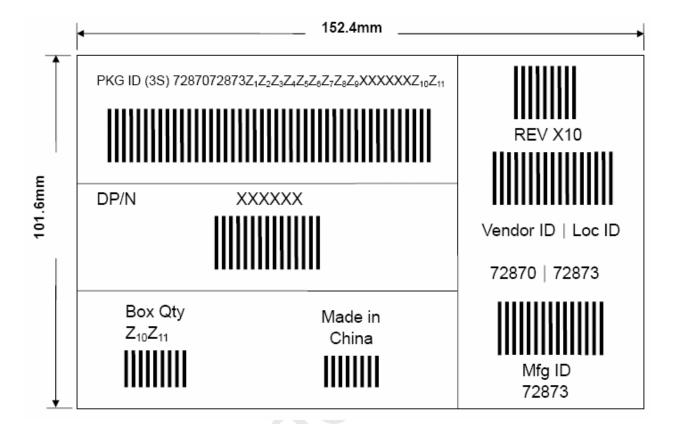
Serial ID includes the information as below: Manufactured Date: Year: 0~9, for 2000~2009

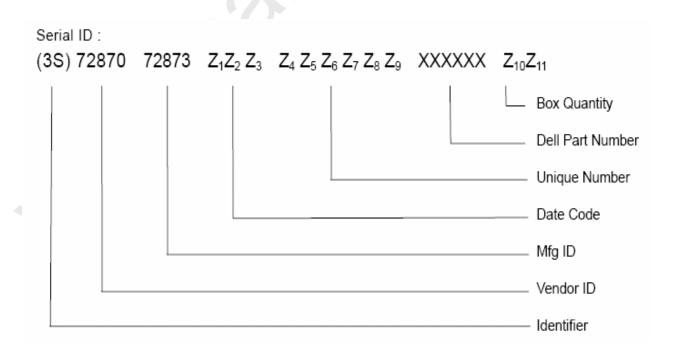
Month: 1~9 & A~C for Jan.~Dec.

Date: 1~9 & A~Z (exclude I, O, Q, U) for 1th~31th Serial No.: Module manufacture sequential number.

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8-2 Carton label

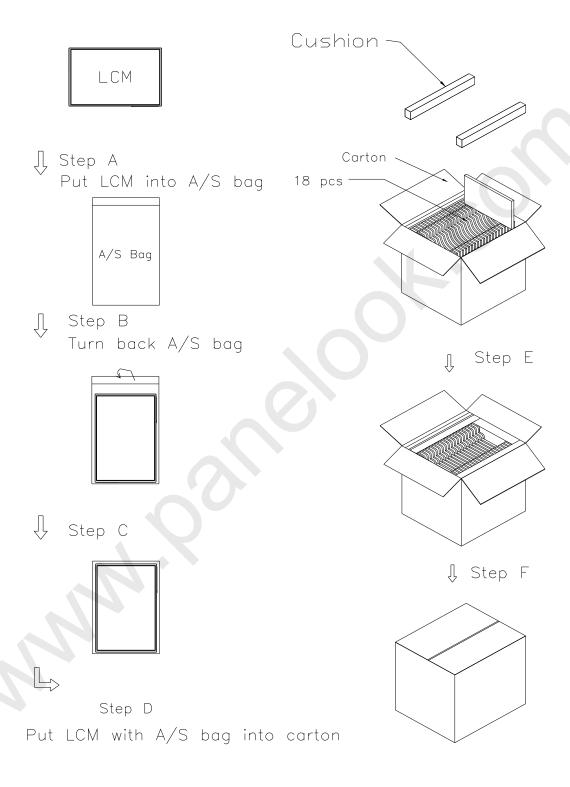






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9. Packing Form

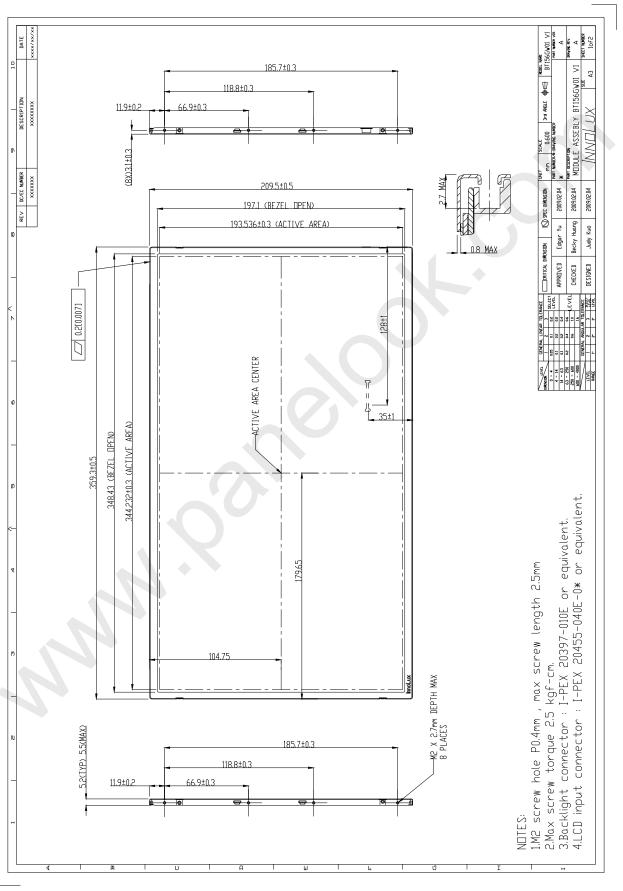


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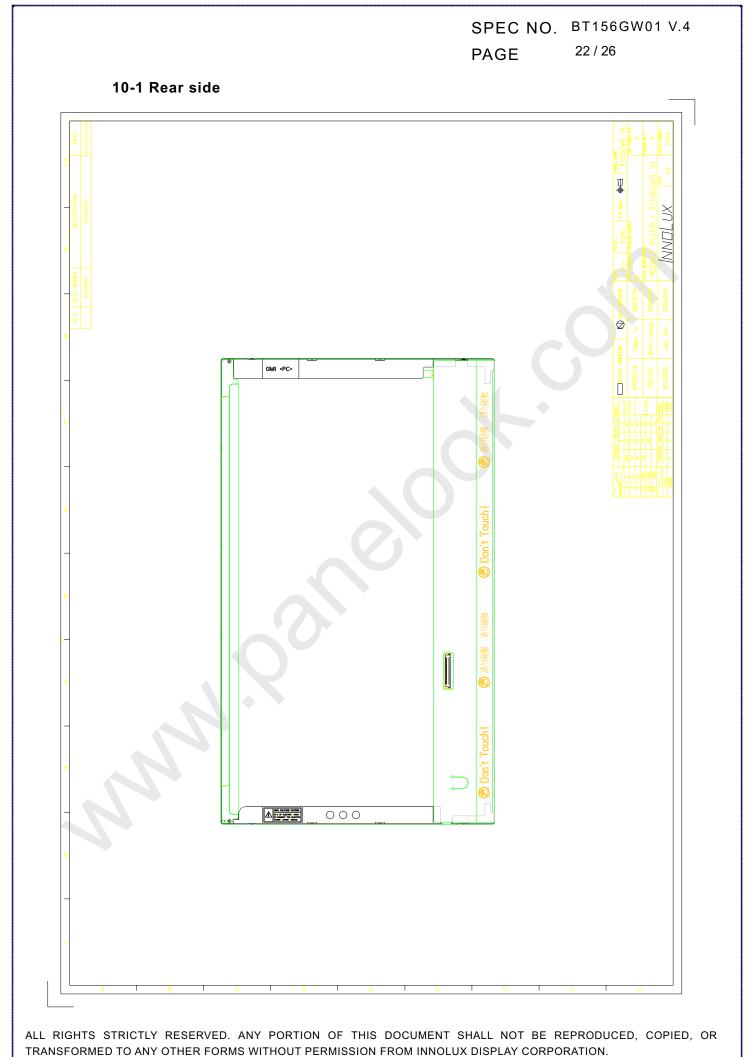
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10. Mechanical Drawings

10-1 Front side









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Appendix: EDID Code

	Byte	Field Name and Comments	Value	Value
	(hex)	Field Name and Comments	(hex)	(binary)
	0	Header	00	00000000
_	1	Header	FF	11111111
	2	Header	FF	11111111
Header	3	Header	FF	11111111
Ĕ	4	Header	FF	11111111
-	5	Header	FF	11111111
	6	Header	FF	11111111
	7	Header	00	00000000
	8	EISA manufacture code = 3 Character ID	25	00100101
	9	EISA manufacture code (Compressed ASCII)	CC	11001100
	0A	Panel Supplier Reserved – Product Code	0A	00001010
	0B	Panel Supplier Reserved – Product Code	00	00000000
duct	0C	LCD module Serial No - Preferred but Optional ("0" if not used)	00	00000000
Pro /ersi	0D	LCD module Serial No - Preferred but Optional ("0" if not used)	00	00000000
Vendor / Product EDID Version	0E	LCD module Serial No - Preferred but Optional ("0" if not used)	00	00000000
Venc	0F	LCD module Serial No - Preferred but Optional ("0" if not used)	00	00000000
	10	Week of manufacture>	00	00000000
	11	Year of manufacture – 1990 (ex. 2005-1990=15)>2009		00010011
	12	EDID structure version # = 1		0000001
	13	EDID revision # = 3	03	00000011
	14	Video I/P definition = Digital I/P (80h)	90	10010000
y ers	15	Max H image size = (34.423=34 cm)	22	00100010
Display Parameters	16	Max V image size = (19.354=19 cm)	13	00010011
Par	17	Display gamma = (gamma ×100)-100 = Example: (2.2×100) - 100 = 120	78	01111000
	18	Feature support (no DPMS, Active off, RGB, timing BLK 1)	0A	00001010
	19	Red/Green Low bit (RxRy/GxGy)	C8	11001000
Ī	1A	Blue/White Low bit (BxBy/WxWy)	85	10000101
	1B	Red x Rx=0.620	9E	10011110
ا ي	1C	Red y Ry=0.340	57	01010111
Panel Color Coordinates	1D	Green x Gx=0.330	54	01010100
anel	1E	Green y Gy=0.605	9B	10011011
<u> </u>	1F	Blue x Bx=0.150	26	00100110
	20	Blue y By=0.070	12	00010010
Ţ	21	White X Wx=0.313	50	01010000
	22	White Y Wy=0.329	54	01010100

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Pixel Clock/10,000

Pixel Clock/10,000



SPEC NO. BT156GW01 V.4 24/26 **PAGE** 00 Established Timings 0000000 23 Established timings 1 (00h if not used) Established timings 2 (00h if not used) 00000000 24 00 25 Manufacturer's timings (00h if not used) 00 0000000 26 Standard timing ID1 (01h if not used) 01 0000001 27 Standard timing ID1 (01h if not used) 01 0000001 28 Standard timing ID2 (01h if not used) 01 00000001 Standard timing ID2 (01h if not used) 00000001 29 01 2A Standard timing ID3 (01h if not used) 01 00000001 2B Standard timing ID3 (01h if not used) 01 0000001 Standard Timing ID 2C Standard timing ID4 (01h if not used) 01 00000001 2D Standard timing ID4 01 0000001 (01h if not used) 2E 01 00000001 Standard timing ID5 (01h if not used) 2F 01 0000001 Standard timing ID5 (01h if not used) 30 (01h if not used) 01 0000001 Standard timing ID6 01 0000001 31 Standard timing ID6 (01h if not used) 0000001 32 Standard timing ID7 (01h if not used) 01 33 Standard timing ID7 (01h if not used) 01 0000001 (01h if not used) 0000001 34 Standard timing ID8 01 35 Standard timing ID8 (01h if not used) 01 0000001 36 Pixel Clock/10,000 (Pixel Clock=67.1MHz) (LSB) 36 00110110 37 Pixel Clock/10,000 (Pixel Clock=67.1MHz) (MSB) 1A 00011010 38 Horizontal Active = 1366 pixels (lower 8 bits) 56 01010110 Horizontal Blanking (Thbp) = 68 pixels (lower 8 bits) 44 01000100 39 Horizontal Active/Horizontal blanking (Thbp) 50 01010000 3A (upper4:4 bits) 0000000 3B Vertical Active = 768 lines 00 Vertical Blanking (Tvbp) = 13 lines (DE Blanking typ. for DE only panels) 3C 0D 00001101 Fiming Descripter #1 3D Vertical Active: Vertical Blanking (Tvbp) (upper4:4 bits) 30 00110000 Horizontal Sync, Offset (Thfp) = 17 pixels 11 00010001 3E Horizontal Sync, Pulse Width = 12 pixels 0C 00001100 3F 40 Vertical Sync, Offset (Tvfp) = xx lines 32 00110010 Sync Width = xx lines 41 Horizontal Vertical Sync Offset/Width upper 2 bits 00 00000000 42 Horizontal Image Size =344 mm 58 01011000 43 C2 11000010 Vertical image Size = 194 mm 44 Horizontal Image Size / Vertical image size 10 00010000 45 Horizontal Border = 0 (Zero for Notebook LCD) 00 0000000 Vertical Border = 0 (Zero for Notebook LCD) 00 00000000 46

Timing Descripter #2 4A Horizontal Active = 1366 pixels (lower 8 bits) 56 01010110 ALL RIGHTS STRICTLY RESERVED. ANY PORTION OF THIS DOCUMENT SHALL NOT BE REPRODUCED, COPIED, OR

(LSB)

(MSB)

1A

36

1A

00011010

00110110

00011010

Non-interlaced, Normal, no stereo, Separate sync, H/V pol Negatives, DE

only note: LSB is set to "1" if panel is DE-timing only. H/V can be ignored.

(Pixel Clock=67.1MHz)

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	4B	Horizontal Blanking (Thbp) = 68 pixels (lower 8 bits)	44	01000100
	4C	Horizontal Active/Horizontal blanking (Thbp) (upper4:4 bits)	50	01010000
	4D	Vertical Active = 768 lines	00	00000000
	4E	Vertical Blanking (Tvbp) = 13 lines (DE Blanking typ. for DE only panels)	0D	00001101
	4F	Vertical Active : Vertical Blanking (Tvbp) (upper4:4 bits)	30	00110000
	50	Horizontal Sync, Offset (Thfp) = 17 pixels	11	00010001
	51	Horizontal Sync, Pulse Width = 12 pixels	0C	00001100
	52	Vertical Sync, Offset (Tvfp) = xx lines Sync Width = xx lines	32	00110010
	53	Horizontal Vertical Sync Offset/Width upper 2 bits	00	00000000
	54	Horizontal Image Size =344 mm	58	01011000
	55	Vertical image Size = 194 mm	C2	11000010
	56	Horizontal Image Size / Vertical image size	10	00010000
	57	Horizontal Border = 0 (Zero for Notebook LCD)	00	00000000
	58	Vertical Border = 0 (Zero for Notebook LCD)	00	00000000
	59	Module "A" Revision = Example: 00, 01, 02, 03, etc.	1A	00011010
	5A	Flag	00	00000000
	5B	Flag	00	00000000
	5C	Flag	00	00000000
	5D	Dummy Descriptor	FE	11111110
	5E	Flag	00	00000000
	5F	Dell P/N 1 st Character "1"	31	00110001
e u	60	Dell P/N 2 nd Character "G"	47	01000111
Timing Descripter #3 Dell specific information	61	Dell P/N 3 rd Character "5"	35	00110101
cript	62	Dell P/N 4 th Character "D"	44	01000100
Des	63	Dell P/N 5 th Character "3"	33	00110011
spec	64	LCD Supplier EEDID Revision #	80	10000000
Jell Tim	65	Manufacturer P/N "1"	31	00110001
	66	Manufacturer P/N "5"	35	00110101
	67	Manufacturer P/N "6"	36	00110110
	68	Manufacturer P/N "G"	47	01000111
	69	Manufacturer P/N "W"	57	01010111
	6A	Manufacturer P/N "0"	30	00110000
-	6B	Manufacturer P/N (If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h) "1"	31	00110001
	6C	Flag	00	00000000
	6D	Flag	00	00000000
ır #4	6E	Flag	00	00000000
Timing Descripter #4	6F	Data Type Tag:	00	00000000
Sesc	70	Flag	00	00000000
ng E	71	Reserved	00	00000000
ii iii	72	Reserved	00	00000000
	73	Reserved	00	00000000
	74	Reserved	00	00000000



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	75	Reserved	00	00000000
	76	Reserved	00	00000000
	77	Reserved	00	00000000
	78	Reserved	00	00000000
	79	Number of LVDS receiver chips = '01' or '02'	01	00000001
	7A	BIST Enable: Yes = '01' No = '00'	01	00000001
	7B	(If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	0A	00001010
	7C	(If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	20	00100000
	7D	(If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	20	00100000
Checksum	7E	Extension flag (# of optional 128 EDID extension blocks to follow, Typ = 0)	00	00000000
Chec	7F	Checksum (The 1-byte sum of all 128 bytes in this EDID block shall = 0)	F3	11110011